

TECHNICAL DATA DATA SHEET 4762, REV. –

HERMETIC POWER SCHOTTKY RECTIFIER Low Forward Voltage Drop

Add Suffix "S" to Part Number for S-100 Screening.

Applications:

• Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode

Features:

- Ultra low Reverse Leakage Current
- Soft Reverse Recovery at Low and High Temperature
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability

DESCRIPTION: A 60-VOLT, 30 AMP DUAL POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-4/4A/4B PACKAGE.

MAXIMUM RATINGS

ALL RATINGS ARE @ T_C = 25 °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	60	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 °C)	Io	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	280	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	0.4	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

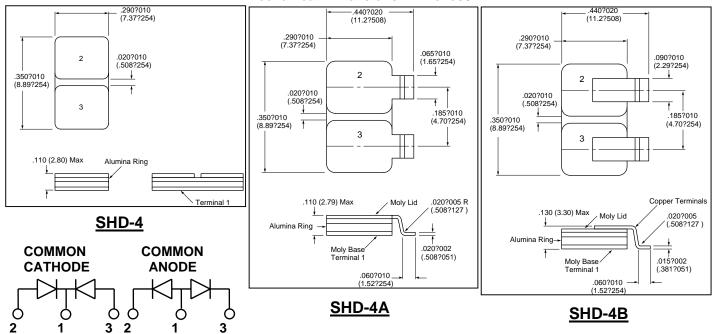
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 30 Amps)			
$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$	V _f	0.56 0.51	Volts
MAXIMUM REVERSE CURRENT (I _r @ 60V PIV)			
$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$	l _r	2 140	mA
MAXIMUM JUNCTION CAPACITANCE (V _r =5	V) C _T	800	pF

SENSITRON

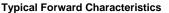
PINOUT TABLE

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Mechanical Dimensions: In Inches / mm

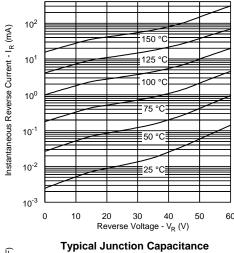


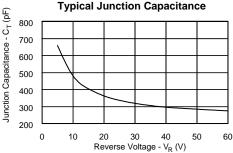
DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE (P)	COMMON CATHODE	ANODE 1	ANODE 2
DUAL RECTIFIER, COMMON ANODE (N)	COMMON ANODE	CATHODE 1	CATHODE 2



10⁻¹ 10⁻¹ 10⁻¹ 10⁻¹ 10⁻¹ 10⁻¹ 0.0 0.2 0.4 0.6 Forward Voltage Drop - V_F (V)

Typical Reverse Characteristics





 V_F @ 1A -55°C typical = 0.56V



TECHNICAL DATA

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